

SERVICE BULLETIN

AA-SB-24-001

Installation Alternate Battery – Odyssey

1. Planning Information

1.1 EFFECTIVITY

HR200 Mk2 Series Aircraft S/N 250 to 378
R2000 Mk2 Series Aircraft S/N 250 to 378
Fitted with Sonnenschein Battery Rack as per HR200 & R2000 Illustrated Parts Catalogue Figure 351.

All Alpha R2000 Series aircraft.

1.2 CONCURRENT REQUIREMENTS

Nil

1.3 REASON

This Service Bulletin covers the installation of an alternate Odyssey Sealed Lead Acid type battery to improve battery reliability and cold cranking performance.

1.4 DESCRIPTION

Sonnenschein Battery P/N GF 12 022 Y F is removed and replaced with Odyssey Battery P/N PC925. The fasteners common to the battery terminals are changed to suit the Odyssey Battery terminals.

1.5 COMPLIANCE

Optional, on an “as required” basis.

1.6 APPROVAL

By delegated authority (Alpha Aviation Concept Ltd, DO75992) COA AA/60/1083.

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1.7 Material Information

Installed Items: (Not Supplied)

QTY	P/N	Description
1	PC 925	Battery - Odyssey
2	MS25171-4S *	Nipple
2	DIN 933 M6 x 1.0g x 20mm LG	Screw, Hex Cap
2	DIN 125A M6	Washer, Flat M6
2	DIN 127 M6	Washer, Lock M6

* Or equivalent part

Replaced Items:

QTY	P/N	Description
1	GF 12 022 Y F	Battery - Sonnenschein

1.8 WEIGHT AND BALANCE

AA-SB-24-001 adds 2.2 kg at ARM -0.655m. Moment change -1.44kg.m

1.9 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

BATTERY CHECK

Check battery regulator voltage in accordance with the Service Manual to ensure maximum voltage at end of charging operation is between 13.5 and 13.8 Volts.

1.10 REFERENCES

APEX R2000 Service Manual S/N 001 to 378
APEX HR200 Service Manual S/N 001 to 378
HR200 & R2000 Illustrated Parts Catalogue

Alpha R2000 Service Manual
Alpha R2000 Illustrated Parts Catalogue

1.11 OTHER PUBLICATIONS AFFECTED

Nil

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2. Accomplishment Instructions

- a) Remove Sonnenschein Battery P/N GF 12 022 Y F
- Disconnect Negative and Positive Battery leads
 - Loosen and remove tie rod nut, tie rod, and securing bracket. Retain for installation of Odyssey battery.
 - Remove Sonnenschein battery.

- b) Installation of Odyssey PC925 battery
- Locate Odyssey battery onto battery rack with both terminal connectors toward front of aircraft.
 - Engage the securing bracket (existing) on firewall hook (existing) and position the tie rod. Fit the tie rod nut and tighten fully.
 - Fit Nipple P/N MS25171-4S over battery leads (not shown in Fig 1 for clarity)
 - Connect Battery Terminal leads using following hardware (Refer Fig 1):

2 x M6 x 1.0-6g x 20mm LG (Screw, Hex Cap, DIN 933)
2 x M6 Washer, Flat DIN 125A
2 x M6 Washer, Lock DIN 127

- c) Check Battery Regulator Voltage
- Check battery regulator voltage in accordance with the Service Manual to ensure maximum voltage at end of charging operation is between 13.5 and 13.8 Volts.

d) Records

- Record embodiment of this service bulletin in the aircraft log book.

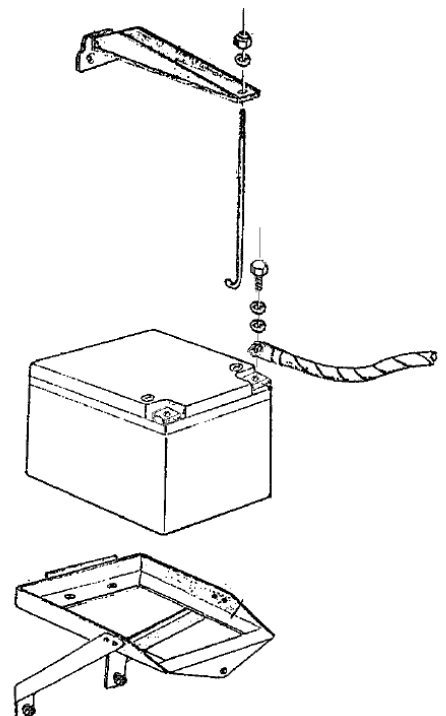


Figure 1 : Battery installation



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